

FABULOUS FOAMCORE

- und lobsa blades!
- Elmer's Glue
- Hot melt glue & gun (see cave below)
- X-ACTO knife (NOT matt knife)
- Metal ruler with cork or masking tape on backside (reduces slipping)
- Map pins or long push pins (the wider the ruler, the easier to hold)
- Cutting surface: back of Newsprint pad works well

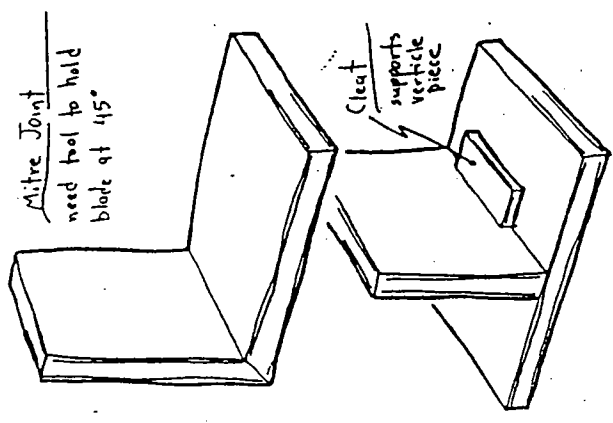
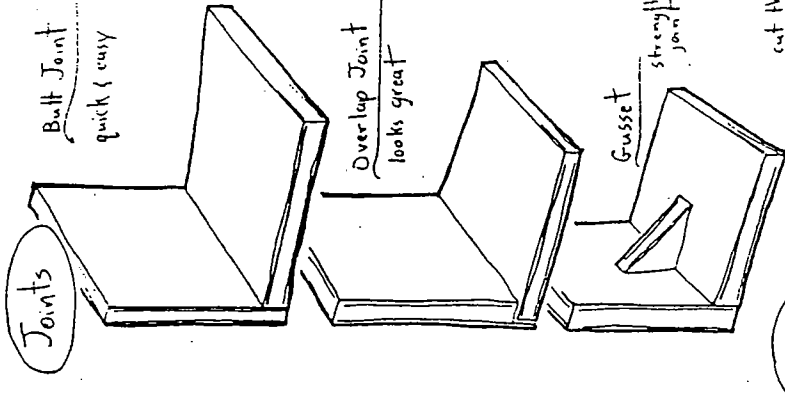
Cutting & Safety

- Ruler guides blade (press blade down, lightly graze ruler)
- Hold edge of ruler
 - farthest distance from blade
 - good resistance to side force from blade
- Cut with ruler protecting good part (slips will ruin scrap, not work piece)
- One cut = 3 strokes:
 - 1st stroke scores surface paper
 - 2nd stroke cuts surface paper & some foam
 - 3rd stroke cuts remaining foam & bottom paper
- Use all of blade, not just tip
- Blades go dull extremely quickly
 - ↳ gonges/rips instead of cuts
 - ↳ hands heal quicker if injured by sharp blade

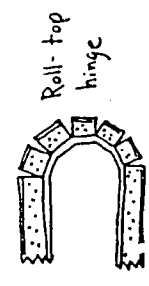
THINK! "where will blade go if it slips?"

• NEVER KNEEL ON RULER TO HOLD IT WHILE CUTTING:

- Knife - Ruler - Off-Table trick: wear shoes
- Kodak film case



Pins can be used to hold pieces together while glue dries

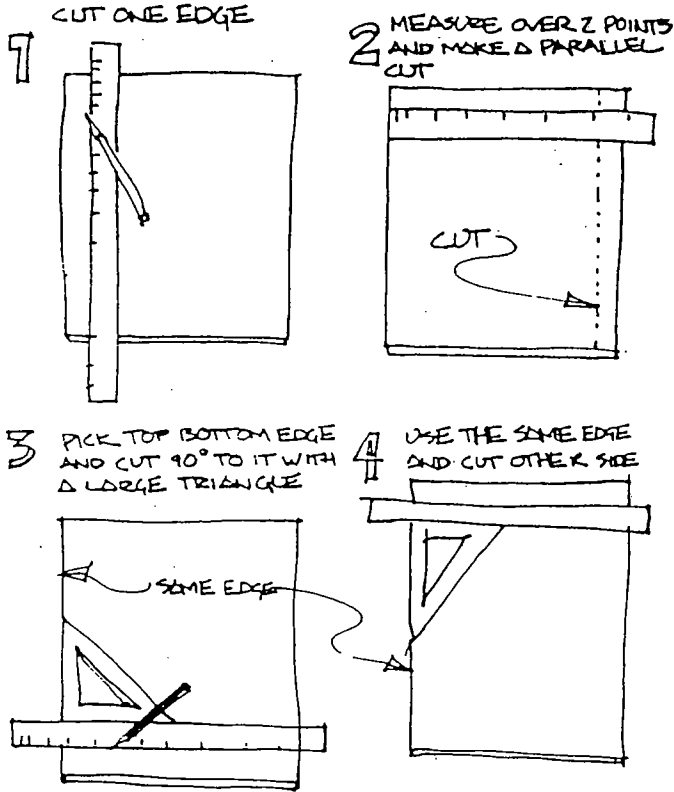


Elmers
easy to control
dries in a couple hours
minimal thickness (thin)
thermally safe

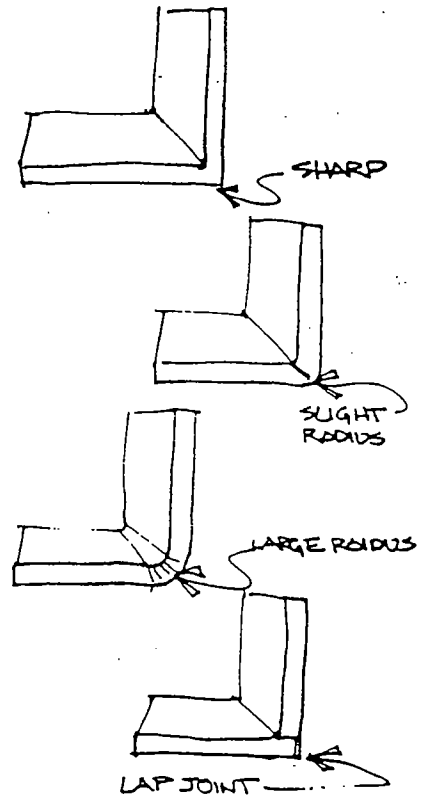
vs.

Hot Melt
messy (whiskers)
dries in a couple seconds
filler (thick)
hot glue burns

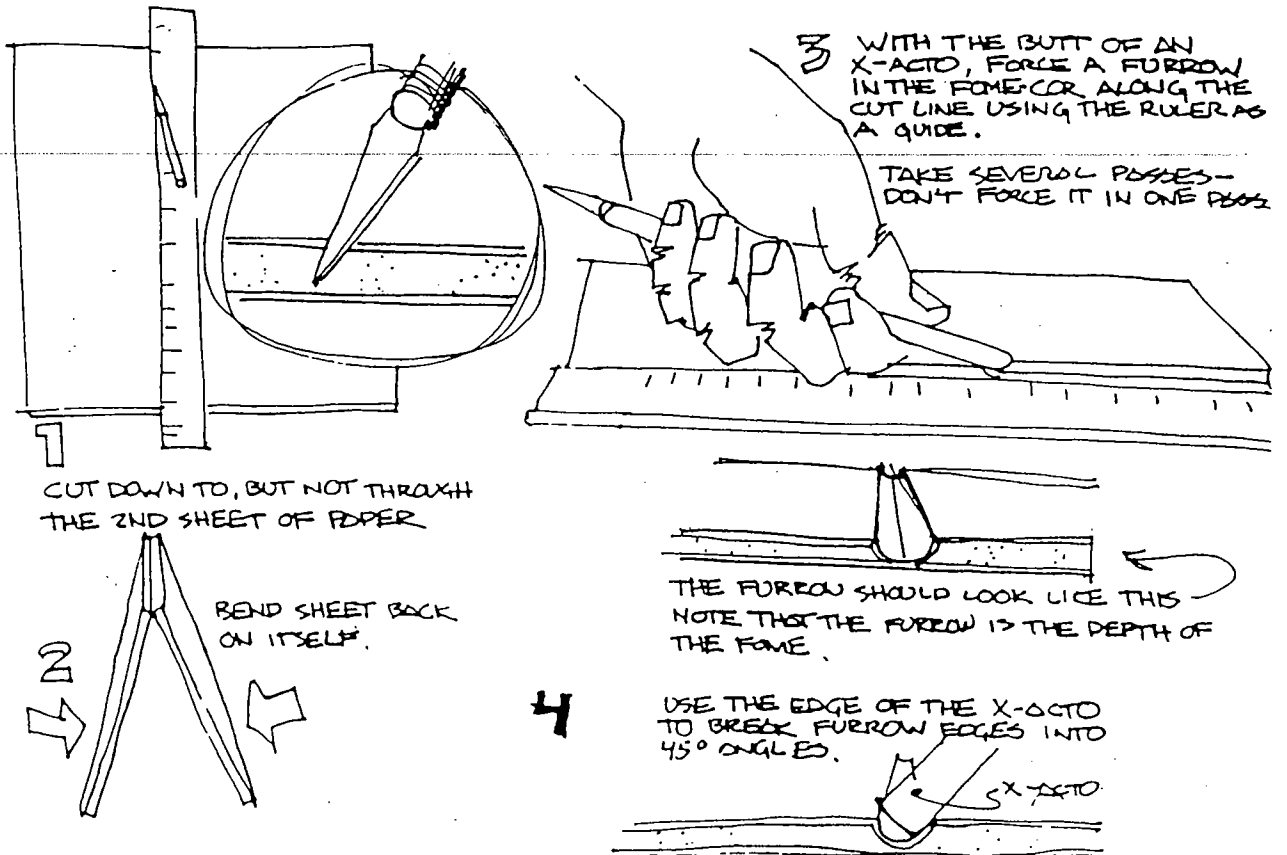
▶ START OUT SQUARE !!!!



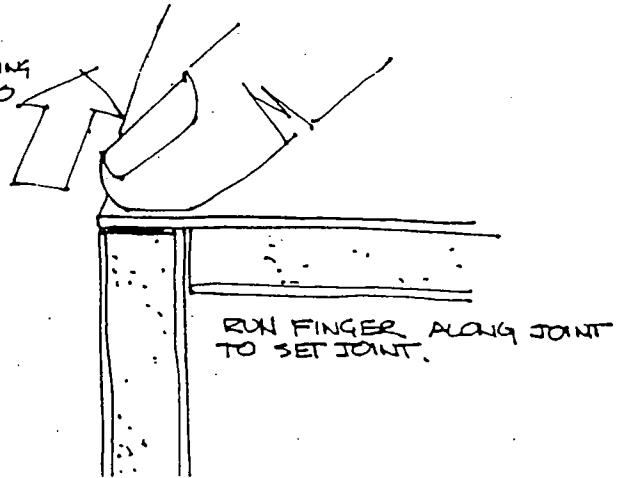
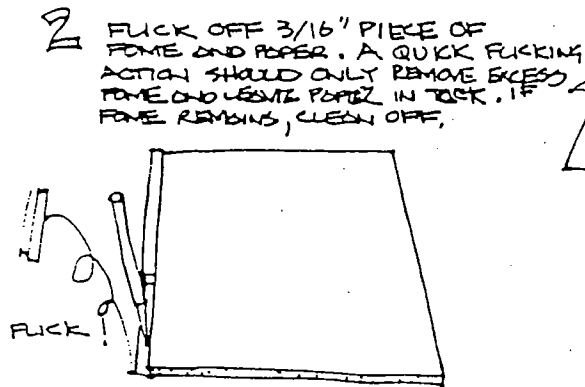
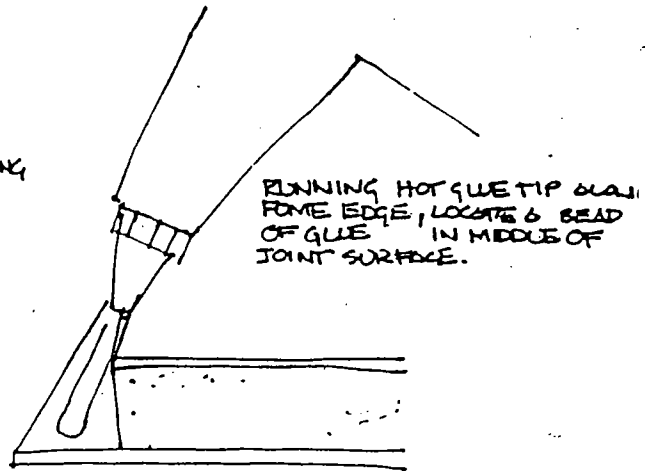
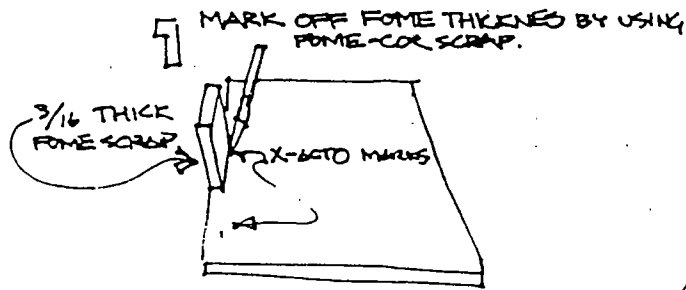
▶ JOINTS



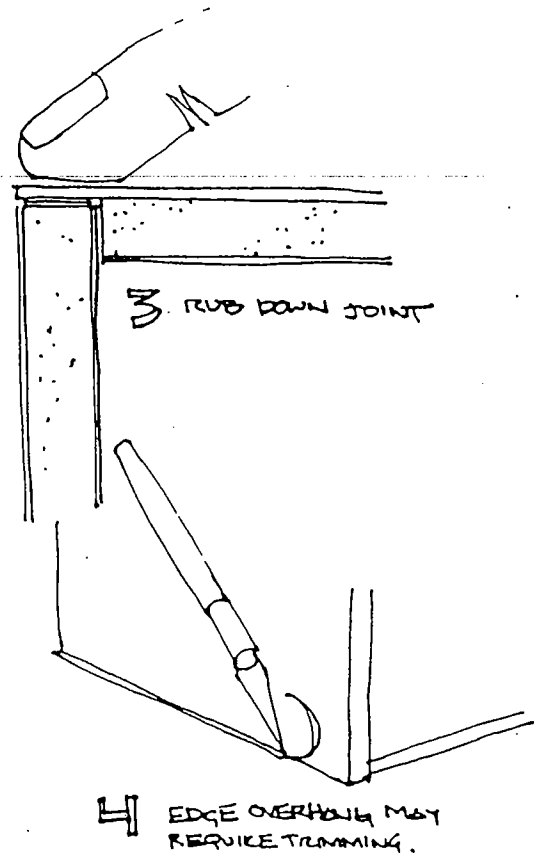
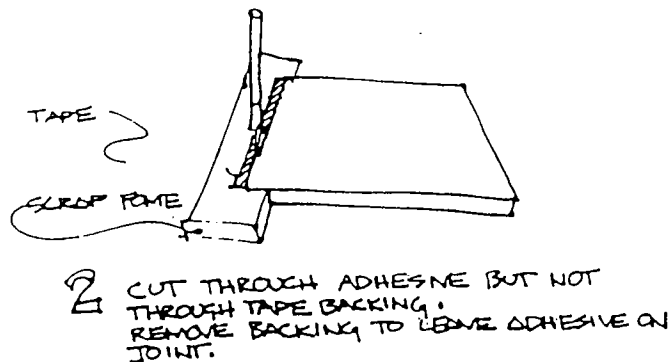
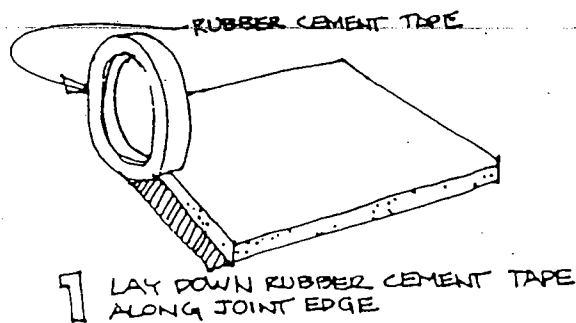
▶ JOINTS: SHARP



▶ JOINTS: LAP JOINT



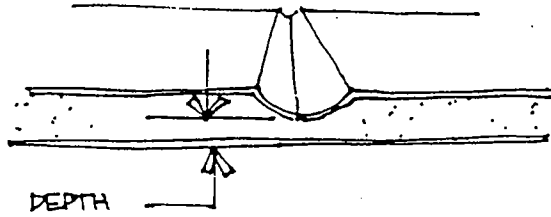
▶ JOINTS: LAP JOINT WITH RUBBER CEMENT TAPE



▶ JOINTS: SLIGHT RADIUS

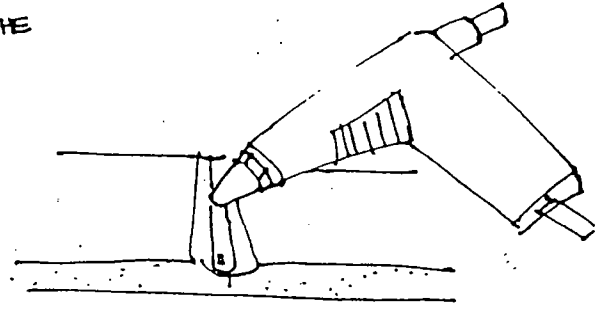
1 CUT DOWN TO BUT NOT THROUGH 2ND SIDE OF PAPER. DO NOT BEND SHEET BACK ON ITSELF.

2 SCORE FURROW WITH BUTT OF X-ACTO BUT CAREFULLY CONTROL THE DEPTH OF THE FURROW.



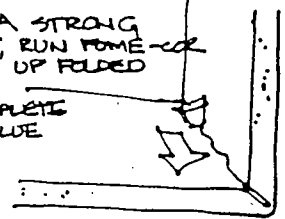
3 THE DEPTH OF THIS FURROW WILL DETERMINE THE CHARACTER OF THE RADIUS
DEEPER = SHARPER
SHALLOW = SOFTER

4 CAREFULLY BREAK EDGES TO 45° ANGLES MAKE SURE YOU DON'T FORCE THE FURROW DEEPER. IF YOU DON'T BREAK THESE EDGES, THE RADIUS WILL DISTORT.



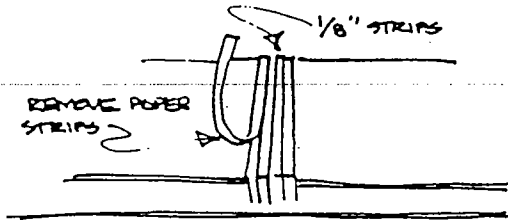
5 RUN A BEAD OF HOT GLUE IN COMPLETED FURROW.

FOR A STRONG JOINT, RUN FOME-COL SCRAP UP FOLDED SHEET TO COMPLETE A HOT GLUE FILLET.



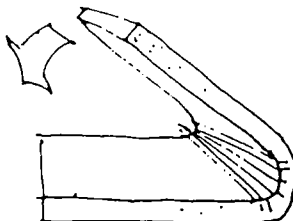
▶ JOINTS: LARGER RADIUS

1 CUT 1/8 INCH STRIPS THROUGH FIRST LAYER OF PAPER AND ABOUT 1/2 WAY THROUGH FOME.

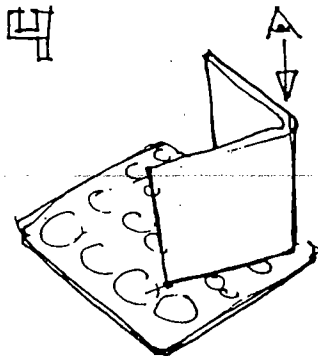


2 STRIP OFF THE 1/8" STRIPS OF PAPER, STRIP BY STRIP. THIS IS HARDER THAN IT SOUNDS BECAUSE THE PAPER TENDS TO PE-LAMINATE AS IT IS STRIPED OFF. DO THE BEST YOU CAN WITHOUT DAMAGING FOME.

3 BEND THE SHEET GOING PAST THE INTENDED ANGLE OF THE FINAL JOINT. (THIS RELIEVES STRESS ON THE JOINT)



4



CHECK RADIUS BY EYEING ON A CIRCLE TEMPLATE.

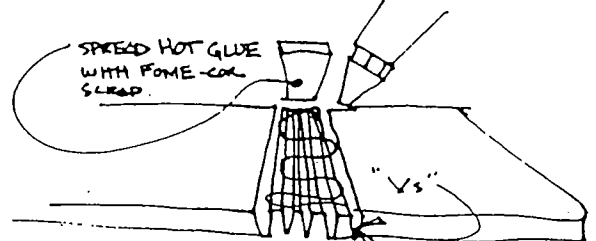
IT MAY TAKE SEVERAL TRIES TO GET THE RIGHT SIZE RADIUS.

ADJUST SIZE BY MAKING MORE OR LESS 1/8 SLOTS.

WRITE DOWN FINAL NUMBER OF STRIPS FOR REFERENCE.

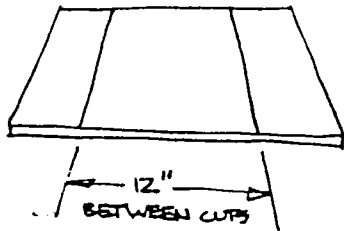
5 IF STABILITY OF THE JOINT IS REQUIRED OR YOU ARE GOING TO CUT CLOSE TO THE RADIUS DO THE FOLLOWING.

NOTICE THAT AFTER BENDING THE RADIUS THE FLOTTENING OUT THE FOME HAS BEEN DEFORMED INTO "V" SHAPE GROOVES. BY FORCING HOT GLUE INTO THESE "V's" AND FOLDING THE SHEET YOU WILL END UP WITH A STRONG, STRUCTURAL JOINT.

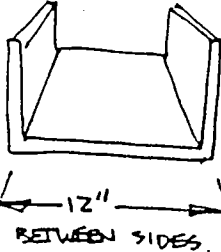


MEASURING

IN THEORY, IF YOU HAVE

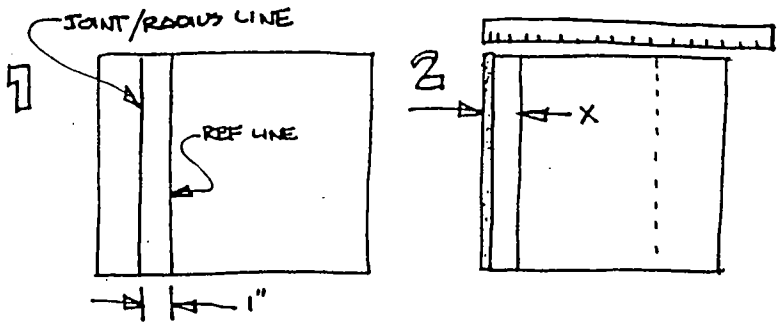


THEN YOU'LL HAVE



NOT QUITE!!!

JOINTS ALWAYS PICK UP SOME DIMENSION WHEN YOU FOLD THEM UP. YOU MUST EXPERIMENT AND LEARN TO SUBTRACT THE DIMENSION GAINED.



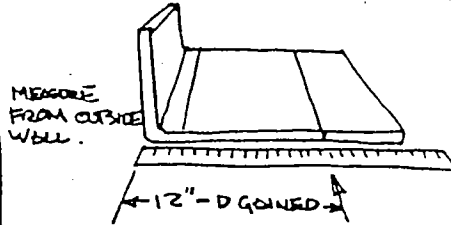
1 SCORE OR DRAW A REFERENCE LINE
BEND THE JOINT UP TO 90°

MEASURE DISTANCE FROM OUTSIDE SURFACE AND SUBTRACT REF DISTANCE

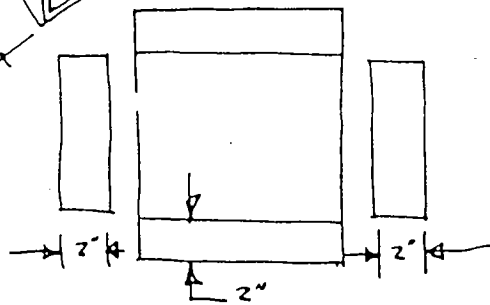
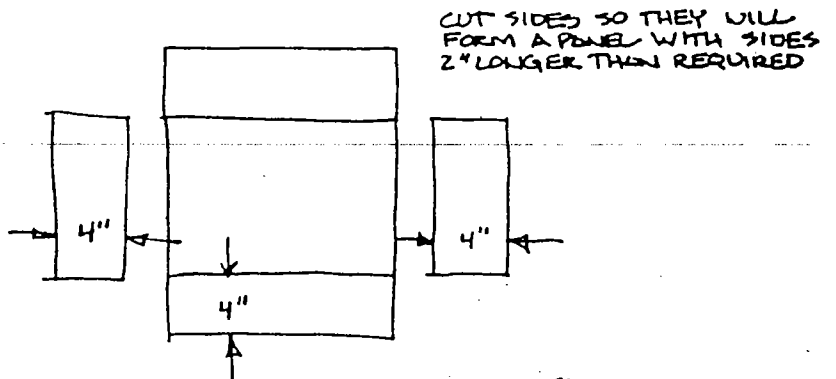
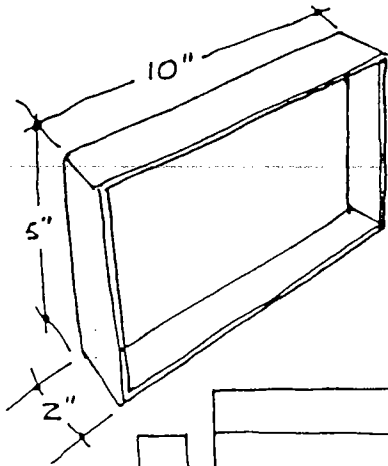
$$X - 1" = \text{DISTANCE GAINED}$$

THE LARGER THE RADIUS THE LARGER DISTANCE GAINED

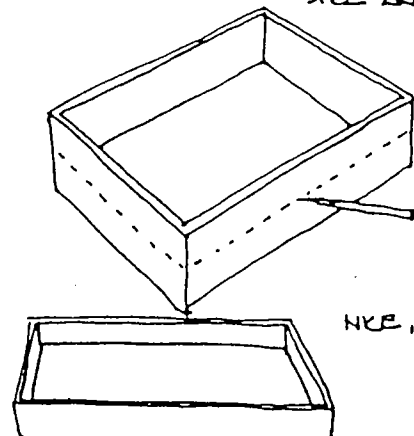
3 SUBTRACT DISTANCE GAINED FROM THE DISTANCE YOU WANT THE OUTSIDE SURFACES APART.



A SIMPLE PANEL

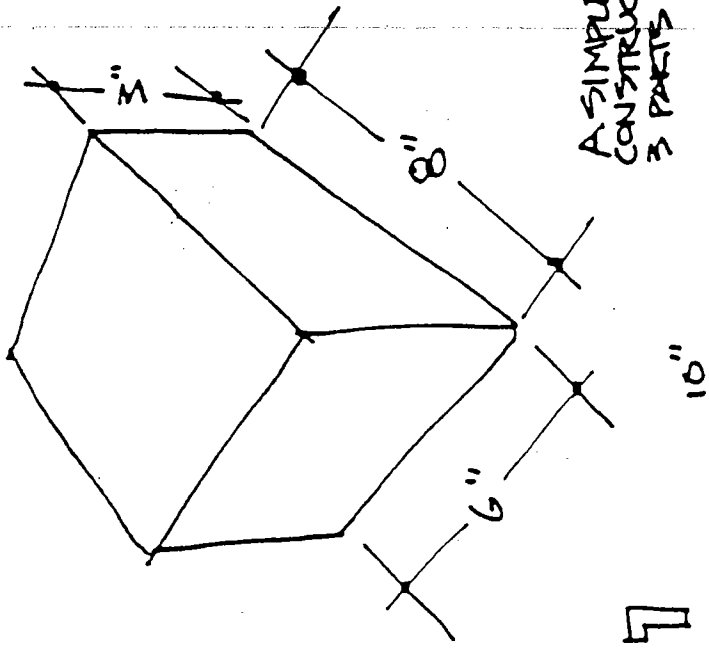


IF YOU CUT PIECES EXACTLY TO SIZE, YOU'LL GO CRAZY!!



NICE, FLAT PANEL.

A SIMPLE BOX

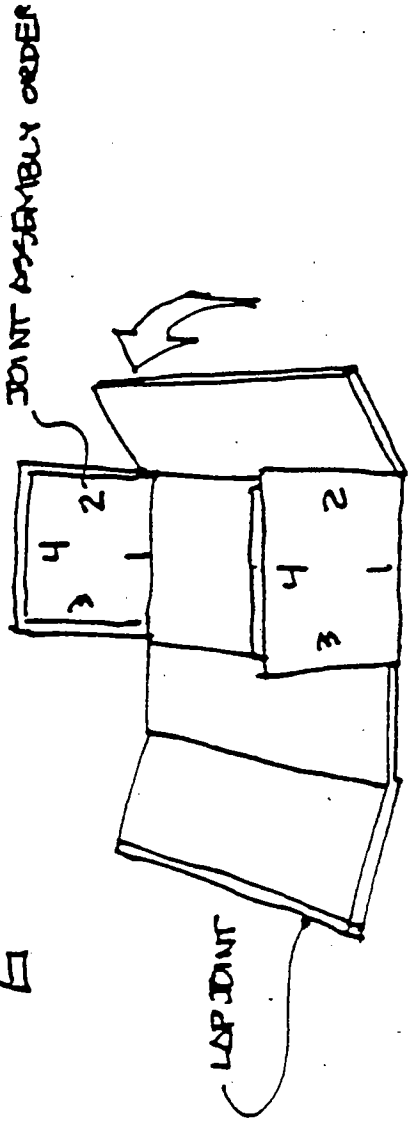


A SIMPLE BOX IS CONSTRUCTED USING 3 PARTS

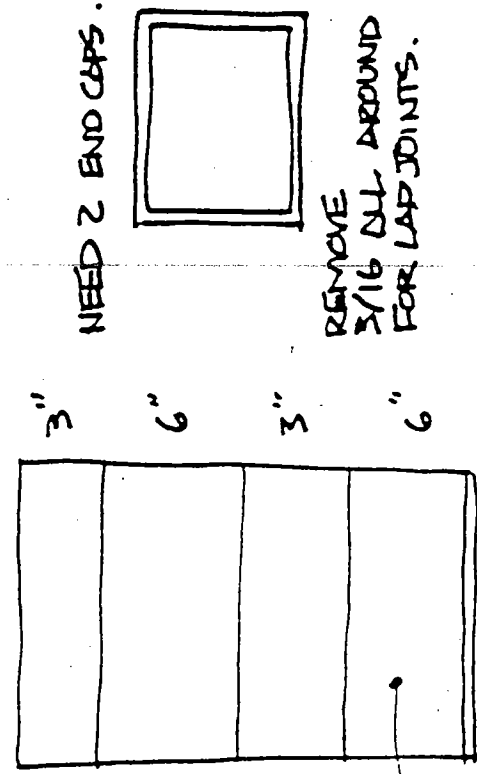
1

HOT GLUE ASSEMBLY:

2



GLUE ONE SIDE AT A TIME, ON BOTH END CAPS

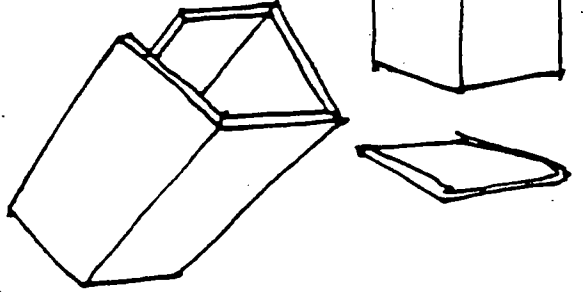


4 SIDED CLIP SECTION PICK LONGEST JOINT TO BE A FOME-COR BEND JOINT.

NEED 2 END CAPS.

REMOVE 3/16 ALL AROUND FOR LAP JOINTS.

3 RUBBER CEMENT ASSEMBLY



JOIN LAP JOINT TO FORM A TUBE.

ADD LAP JOINT ENDS (WITH RUBBER CEMENT TAPE ON JOINTS)

CHECK BOX FOR SQUARENESS